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1. (Amended) A coordinate input device for generating a beam spot by irradiating a predetermined position of a coordinate input surface with light coming from a pointing tool, and generating a coordinate value corresponding to the beam spot, comprising:

- a plurality of sensing means, arranged for at least one coordinate axis, for sensing the beam spot;
- measurement means for measuring peak levels of data sensed by said plurality of sensing means;
- comparison means for comparing the peak levels measured by said measurement means;
- selection means for selecting a sensing result of one of said plurality of sensing means on the basis of a comparison result of said comparison means; and
- output means for outputting a coordinate value corresponding to the beam spot on the basis of the sensing result selected by said selection means,

wherein light-receiving areas of said plurality of sensing means have an overlapping portion.

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2. (Not Amended) The device according to claim 1, wherein each of said plurality of sensing means has a linear array of a plurality of photoelectric conversion elements.

3. (Not Amended) The device according to claim 2, wherein said output means comprises computation means for computing the coordinate value corresponding to the beam spot at resolving power not less than the number of pixels corresponding to the plurality of photoelectric conversion elements.

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4. (Not Amended) The device according to claim 1, wherein said output means comprises storage means for storing a reference coordinate value in the overlapping portion, and

said output means outputs the coordinate value corresponding to the beam spot using the reference coordinate value.

5. (Not Amended) The device according to claim 1, wherein the overlapping portion is defined by light-receiving areas of neighboring ones of said plurality of sensing means.

6. (Twice Amended) A method of controlling a coordinate input device for generating a beam spot by irradiating a predetermined position of a coordinate input surface with light coming from a pointing tool, and generating a coordinate value corresponding to the beam spot, comprising the steps of:

measuring peak levels of data detected by a plurality of sensors, which are arranged for at least one coordinate axis and adapted to sense the beam spot;

comparing the peak levels measured in the measurement step;

selecting a sensing result of one of the plurality of sensors on the basis of a comparison result in the comparison step; and

outputting a coordinate value corresponding to the beam spot on the basis of the sensing result selected in the selection step,

wherein light-receiving areas of the plurality of sensors have an overlapping portion.

7. (Not Amended) The method according to claim 6, wherein each of the plurality of sensors has a linear array of a plurality of photoelectric conversion elements.

8. (Not Amended) The method according to claim 7, wherein the output step computes the coordinate value corresponding to the beam spot at resolving power not less than the number of pixels corresponding to the plurality of photoelectric conversion elements.

9. (Not Amended) The method according to claim 6, wherein the output step stores a reference coordinate value in the overlapping portion in a storage medium, and the output step outputs the coordinate value corresponding to the beam spot using the reference coordinate value.

10. (Not Amended) The method according to claim 6, wherein the overlapping portion is defined by light-receiving areas of neighboring ones of the plurality of sensors.

11. (Amended) A computer readable memory which stores a program code of controlling a coordinate input device for generating a beam spot by irradiating a predetermined position of a coordinate input surface with light coming from a pointing tool, and generating a coordinate value corresponding to the beam spot, comprising:

a program code of a measurement step of measuring peak levels of data detected by a plurality of sensors, which are arranged for at least one coordinate axis and adapted to sense the beam spot;